10/535183

S03P1344

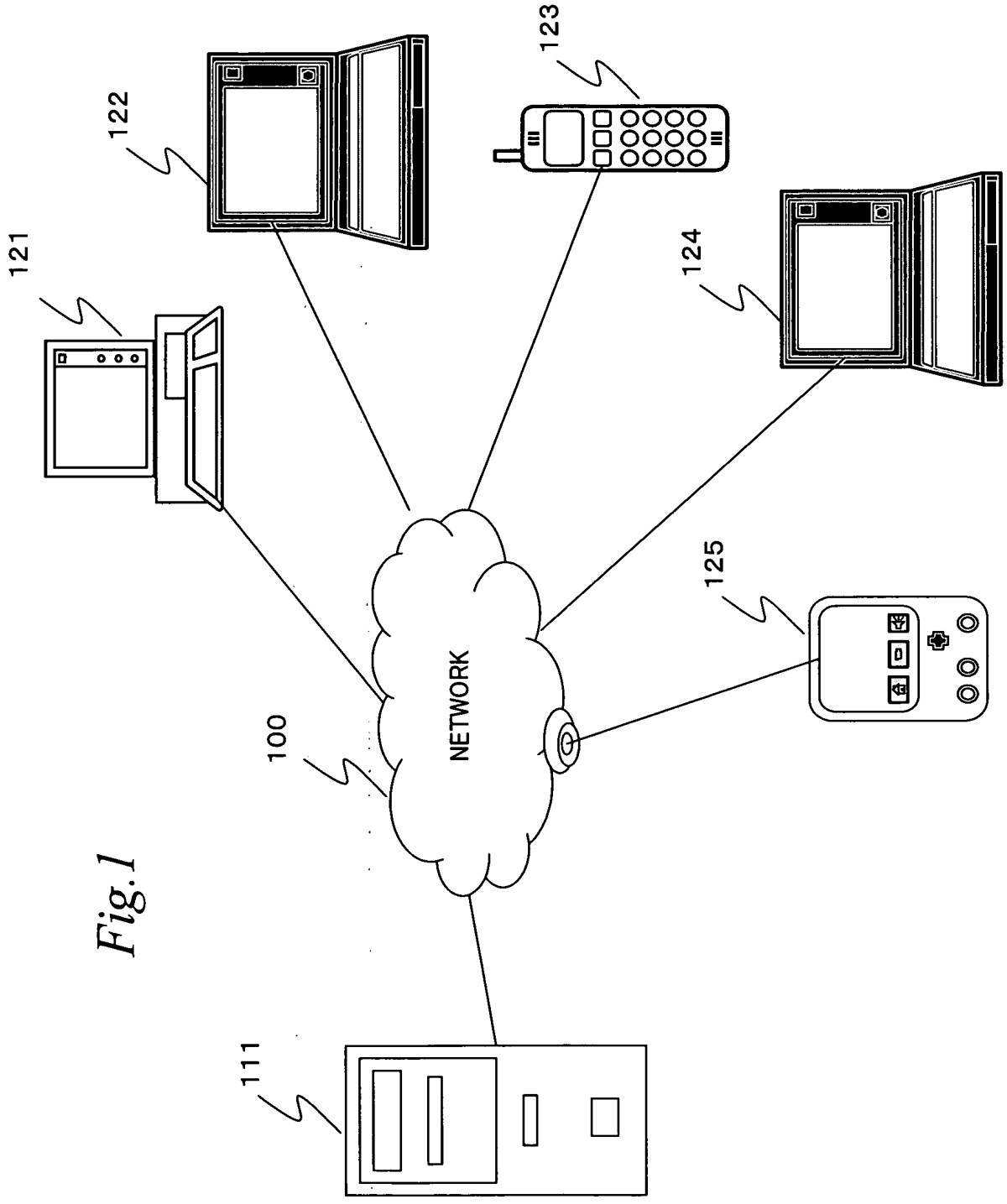


Fig. 1

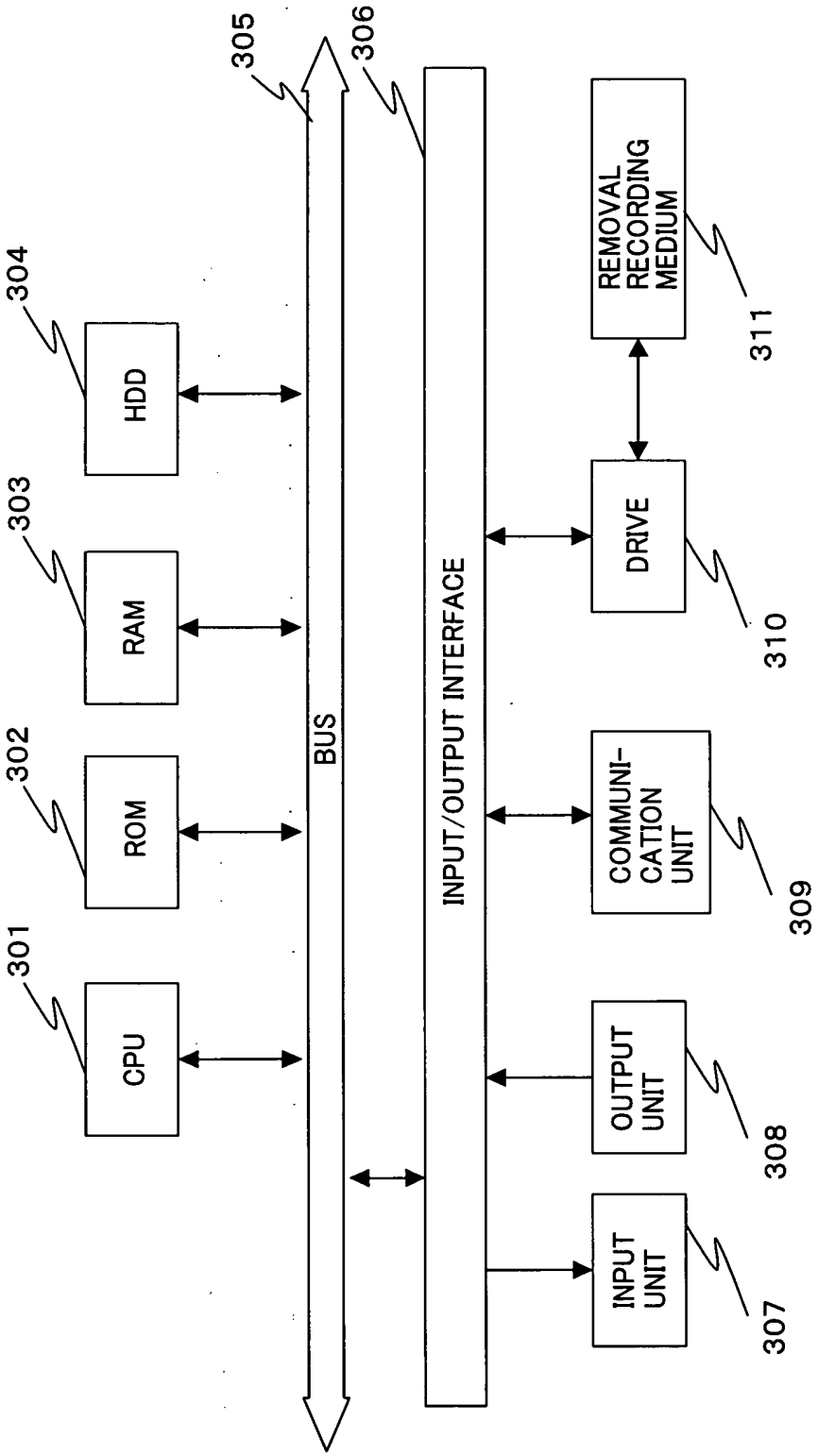

305
306
304
HDD
303
RAM
302
ROM
301
CPU
BUS
INPUT/OUTPUT INTERFACE
REMOVAL RECORDING MEDIUM
311
DRIVE
310
COMMUNI-CATION UNIT
309
OUTPUT UNIT
308
INPUT UNIT
307

Fig.2

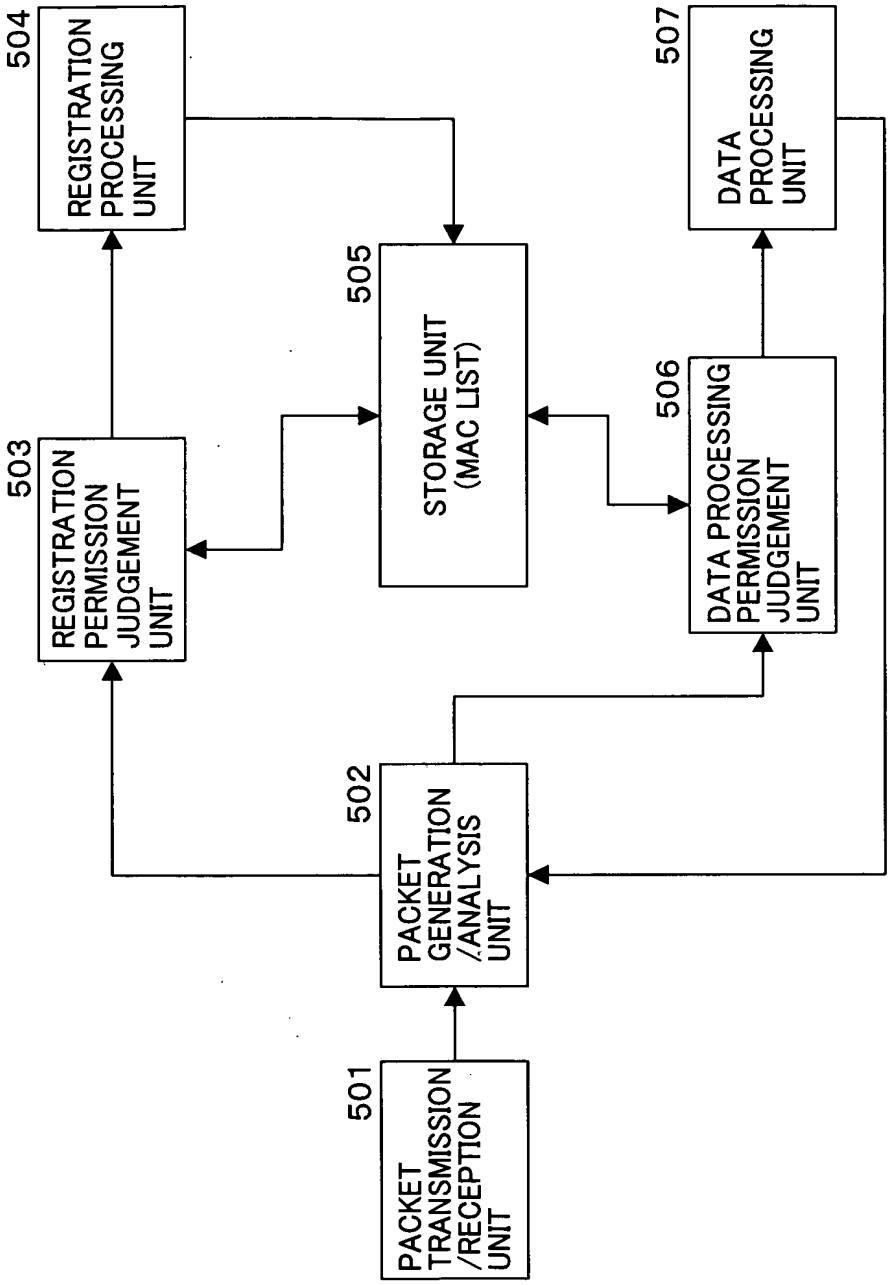

504
REGISTRATION PROCESSING UNIT
507
DATA PROCESSING UNIT
505
STORAGE UNIT (MAC LIST)
503
REGISTRATION PERMISSION JUDGEMENT UNIT
506
DATA PROCESSING PERMISSION JUDGEMENT UNIT
502
PACKET GENERATION /ANALYSIS UNIT
501
PACKET TRANSMISSION /RECEPTION UNIT

Fig.3

SLOT No.	REGISTRATION DATA
#01	MAC ADDRESS/CLIENT NAME/REGISTRATION TIME & DATE /(ID, KEY INFORMATION) OTHERS
#02	MAC ADDRESS/CLIENT NAME/REGISTRATION TIME & DATE /(ID, KEY INFORMATION) OTHERS
#03	(EMPTY SLOT)
#04	(CLOSE)
..	(CLOSE)

Fig.4

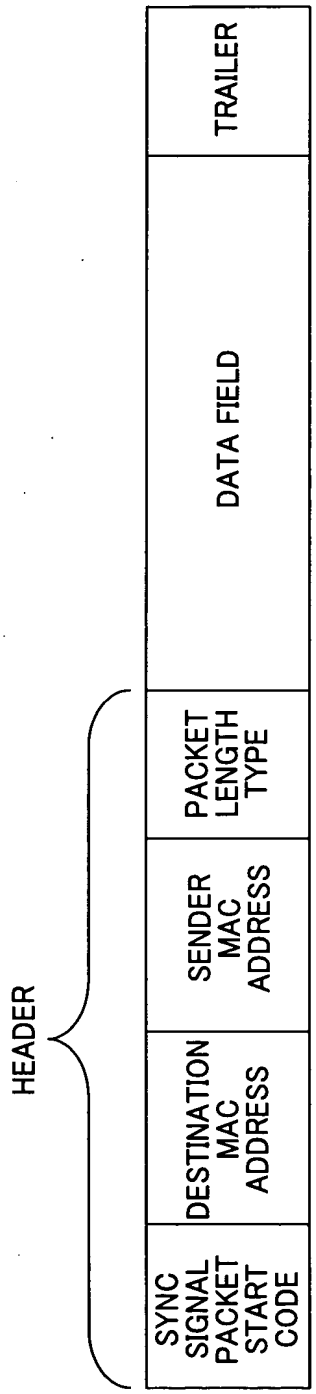

HEADER
SYNC SIGNAL PACKET START CODE
DESTINATION MAC ADDRESS
SENDER MAC ADDRESS
PACKET LENGTH TYPE
DATA FIELD
TRAILER

Fig.5

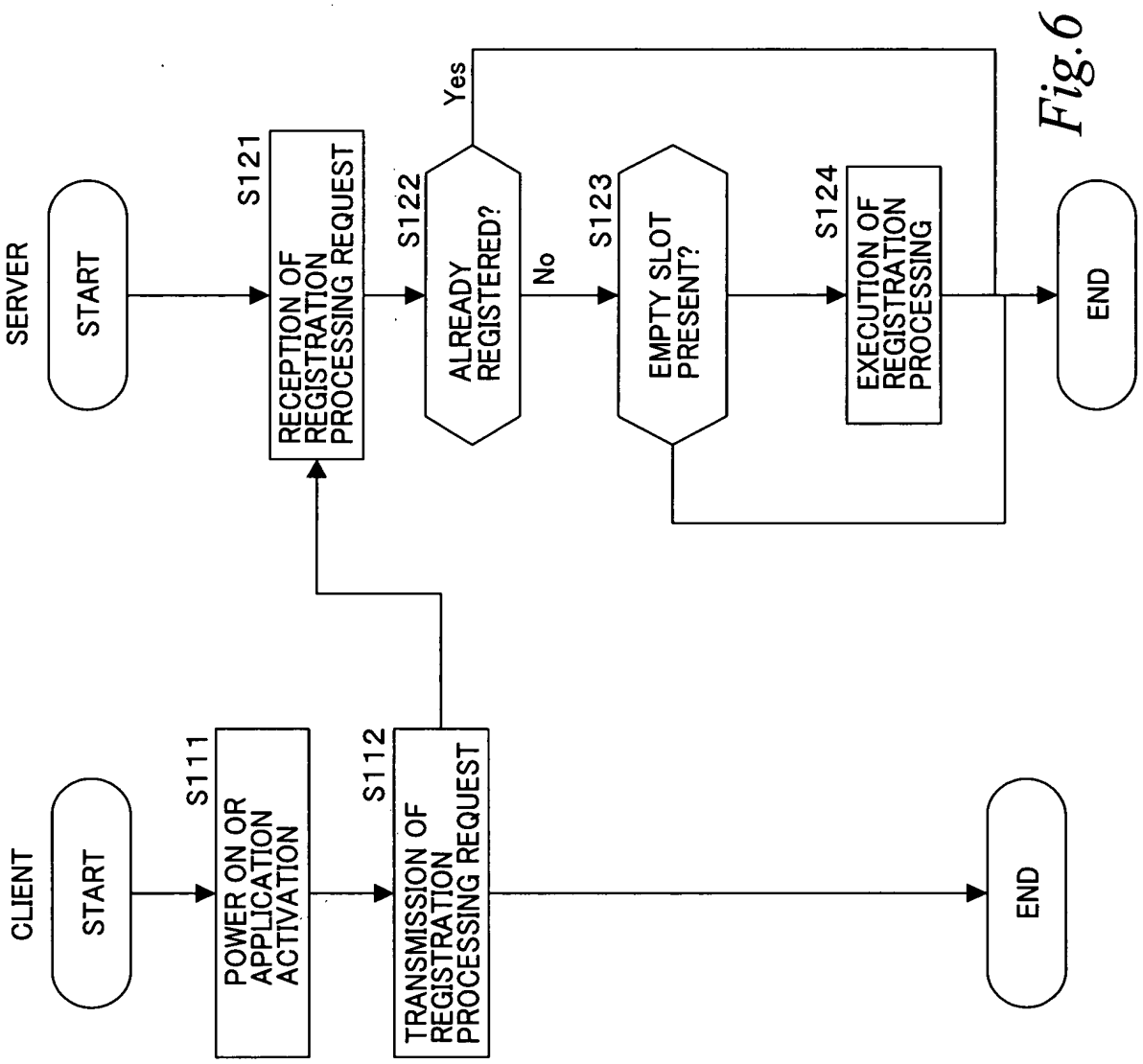

SERVER
START
S121
RECEPTION OF REGISTRATION PROCESSING REQUEST
S122
ALREADY REGISTERED?
Yes
No
S123
EMPTY SLOT PRESENT?
S124
EXECUTION OF REGISTRATION PROCESSING
END
CLIENT
START
S111
POWER ON OR APPLICATION ACTIVATION
S112
TRANSMISSION OF REGISTRATION PROCESSING REQUEST
END

Fig.6

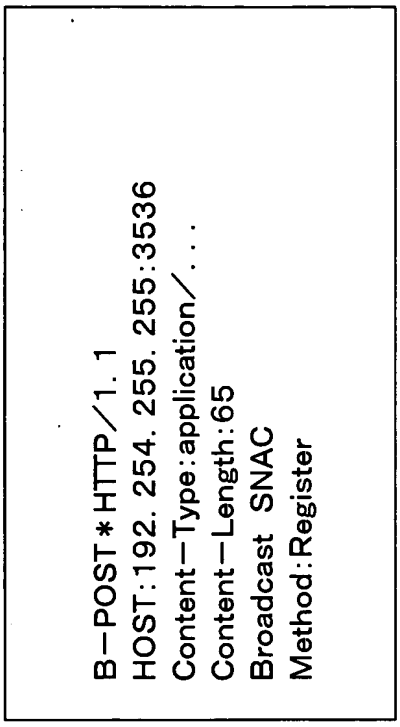

B-POST*HTTP/1.1
HOST:192.254.255.255:3536
Content-Type:application/...
Content-Length:65
Broadcast SNAC
Method:Register

Fig.7

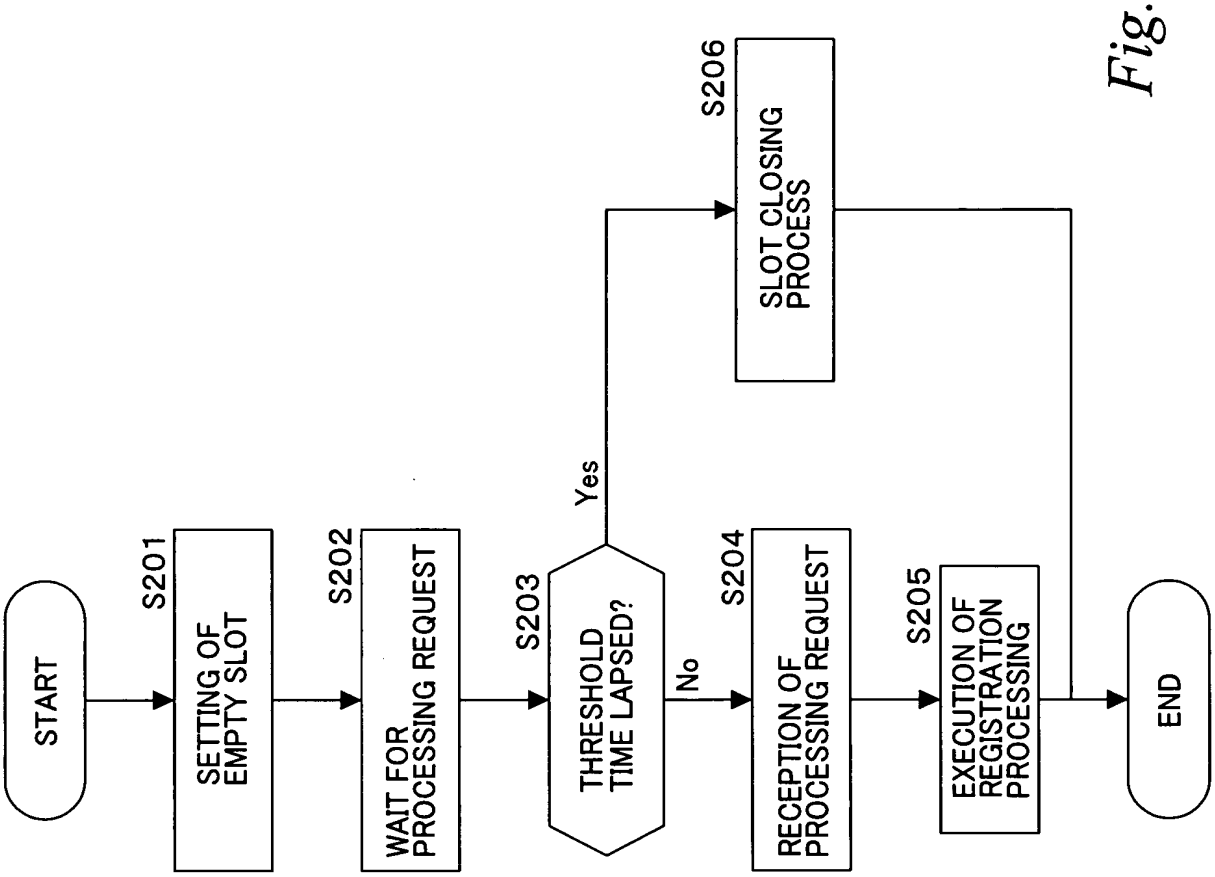
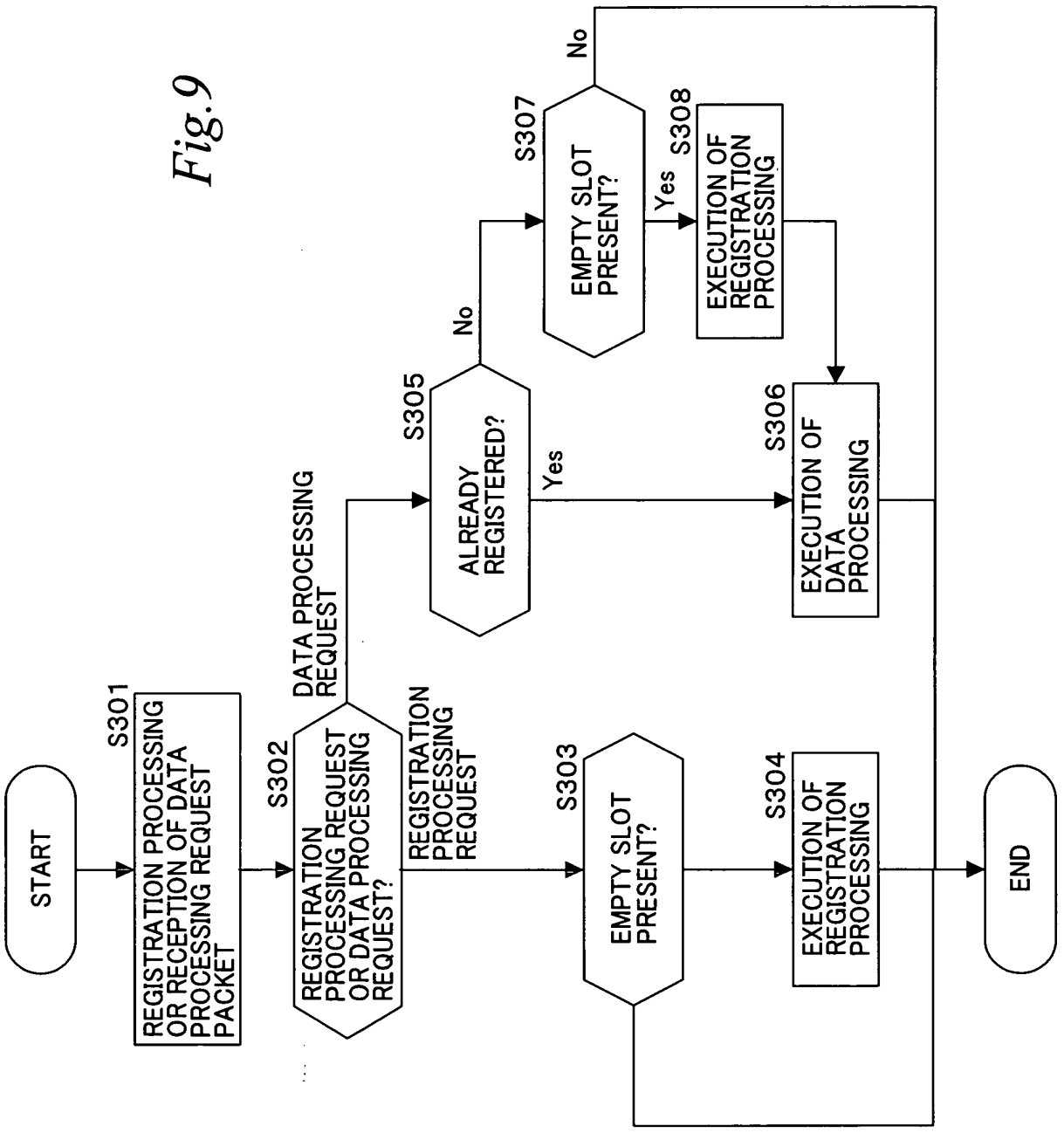

START
S201
SETTING OF EMPTY SLOT
S202
WAIT FOR PROCESSING REQUEST
S203
THRESHOLD TIME LAPSED?
Yes
No
S206
SLOT CLOSING PROCESS
S204
RECEPTION OF PROCESSING REQUEST
S205
EXECUTION OF REGISTRATION PROCESSING
END

Fig.8

Fig.9


START
S301
REGISTRATION PROCESSING OR RECEPTION OF DATA PROCESSING REQUEST PACKET
S302
REGISTRATION PROCESSING REQUEST OR DATA PROCESSING REQUEST?
DATA PROCESSING REQUEST
REGISTRATION PROCESSING REQUEST
S303
EMPTY SLOT PRESENT?
S304
EXECUTION OF REGISTRATION PROCESSING
S305
ALREADY REGISTERED?
No
Yes
S306
EXECUTION OF DATA PROCESSING
S307
EMPTY SLOT PRESENT?
No
Yes
S308
EXECUTION OF REGISTRATION PROCESSING
END

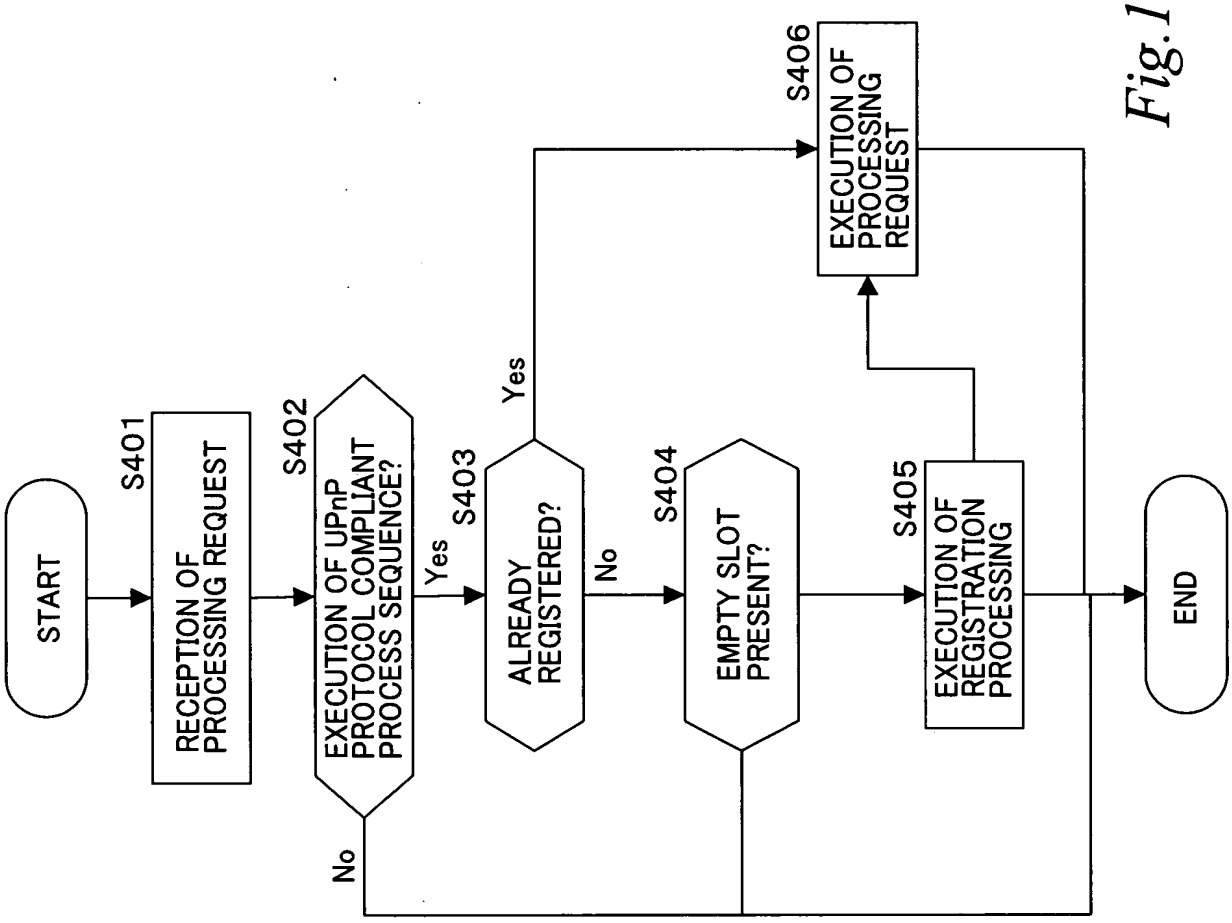

START
S401
RECEPTION OF PROCESSING REQUEST
S402
EXECUTION OF UPnP PROTOCOL COMPLIANT PROCESS SEQUENCE?
Yes
No
S403
ALREADY REGISTERED?
Yes
No
S404
EMPTY SLOT PRESENT?
S405
EXECUTION OF REGISTRATION PROCESSING
S406
EXECUTION OF PROCESSING REQUEST
END

Fig.10

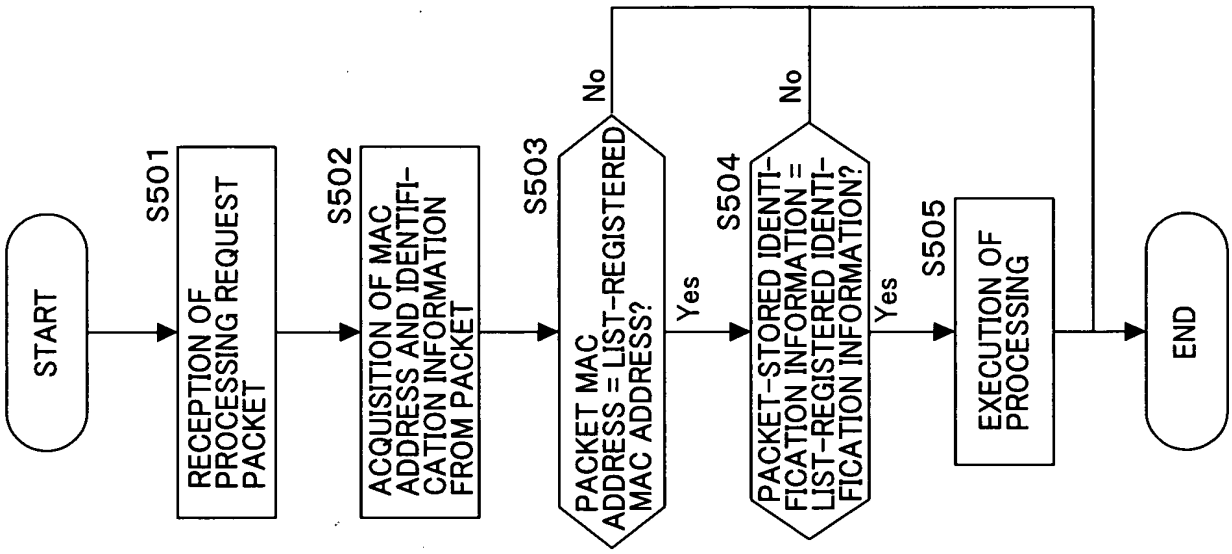

START
S501
RECEPTION OF PROCESSING REQUEST PACKET
S502
ACQUISITION OF MAC ADDRESS AND IDENTIFICATION INFORMATION FROM PACKET
S503
PACKET MAC ADDRESS = LIST-REGISTERED MAC ADDRESS?
No
Yes
S504
PACKET-STORED IDENTIFICATION INFORMATION = LIST-REGISTERED IDENTIFICATION INFORMATION?
No
Yes
S505
EXECUTION OF PROCESSING
END

Fig.11